ARCHIV FÜR HYDROBIOLOGIE

Organ d. Internationalen Vereinigung f. Theoretische u. Angewandte Limnologie

Herausgegeben von

Prof. Dr. H.-J. ELSTER Konstanz/Bodensee

Prof. Dr. W. OHLE Plön/Holstein

Unter Mitwirkung von Dr. T. T. MACAN, Ambleside

Weitere Mitarbeiter:

S. Björk, Lund; G. E. Hutchinson, New Haven/Conn.; R. Ryhänen, Helsinki;

V. SLÁDEČEK, Praha; E. STEEMANN NIELSEN, København; M. UÉNO, Otsu-Shi;

J. R. VALLENTYNE, Burlington; P. VIVIER, Paris

Band

90

Mit 186 Abbildungen und 83 Tabellen im Text



E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller) · Stuttgart 1981 © by Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller), Stuttgart, 1981.

All rights reserved including translation into foreign languages. This journal or parts thereof may not be reproduced in any form without permission from the publishers.

Valid for users in USA:

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., P.O.B. 8891 Boston, Mass. 02114, U.S.A., for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law.

Printed in Germany

Inhalt von Band 90

BARBOSA, F. A. R. & TUNDISI, J. G.: Primary production of phytoplank-	
ton and environmental characteristics of a shallow Quaternary lake at Eastern Brasil. (With 9 figures and 6 tables in the text) .	139—161
Bosselmann, Suzanne: Population dynamics and production of Kera- tella hiemalis and K. quadrata in Lake Esrom. (With 8 figures	127 117
and 2 tables in the text)	427—447
BOWKER, D. W. & DENNY, P.: The seasonal succession and distribution of epiphytic algae in the phyllosphere of <i>Lemna minor L</i> . (With 10 figures and 1 table in the text)	39— 55
FEUILLADE, J. & FEUILLADE, MAURICETTE: Le métabolisme photosynthetique d'Oscillatoria rubescens D.C. (Cyanophycée). I: La carbo-xylation initiale dans des conditions favorables à la croissance. [Photosynthetic metabolism of Oscillatoria rubescens D.C. (Bluegreen alga). I: The initial carboxylation during good conditions of growth.] (Avec 4 figures et 3 tableaux dans le texte.)	410—426
FROST, THOMAS M.: Clearence rate determinations for the freshwater sponge Spongilla lacustris: Effects of temperature, particle type and concentration, and sponge size. (With 8 figures and 8 tables in the text).	330—356
HAMA, TAKEO & HANDA, NOBUHIKO: Molecular weight distribution	330—336
and characterization of dissolved organic matter from lake waters. (With 5 figures and 4 tables in the text)	106—120
HOFER, R., DALLA VIA, J. & OBERMÜLLER, B.: Okologische Untersuchungen an <i>Palaemonetes antennarius</i> im Gardasee. [Ecological studies on <i>Palaemonetes antennarius</i> of Lago di Garda.] (Mit 6	107 000
Abbildungen und 5 Tabellen im Text)	197—209
ILLIES, JOACHIM: Schlitzer Produktionsbiologische Studien, Nr. 42: Ephemeropteren-Emergenz in zwei Lunzer Bächen (1972—1977). [Ephemeroptera emerging from two streams at Lunz (1972—1977).] (Mit 2 Tabellen im Text)	217—229
Koste, Walter: Über zwei Plankton-Rädertiertaxa Filinia australiensis	
n. sp. und Filinia hofmanni n. sp., mit Bemerkungen zur Taxonomie der longiseta-terminalis-Gruppe. Genus Filinia Bory de St. Vincent 1824, Familie Filiniidae Bartos 1959, (Überordnung Monogononta). [On two planktonic rotifers, Filinia australiensis n. sp. and Filinia hofmanni n. sp. with remarks on the taxonomy of the longiseta-terminalis group, Genus Filinia Bory de St. Vincent, 1824, Family Filiniidae Bartos 1959, (Superorder Mono-	
gononta).] (Mit 8 Abbildungen und 4 Tabellen im Text)	230—256
LADLE, M. & Bass, J. A. B.: The ecology of a small chalk stream and its responses to drying during drought conditions. (With 6 figures	448—466
and 2 tables in the text)	440—400
Asterionella formosa (Bacillariophyceae) limited by silica. (With 6 figures and 1 table in the text).	26— 38
MAHON, ROBIN & BALON, EUGENE K.: Quantitative collection of fishes from small fast flowing streams. (With 1 table in the text)	324—329
OCHIAI, MASAHIRO & HANYA, TAKAHISA: Change in monosaccharide composition in the course of decomposition of dissolved carbo-	257—264
OHTAKE, H., KONDO, K., HAYASHI, N., ODA, K., KAWATA, S. &	207 201
Date, Y.: Phytoplankton studies in the brackish lake Naka- noumi, Japan. I. Phytoplankton in Lake Nakanoumi, 1974—1978. (With 8 figures and 5 tables in the text).	309—323
OHTAKE, H., ODA, K., KONDO, K. & DATE, Y.: Phytoplankton studies in the brackish lake Nakanoumi, Japan. II. Numerical classifi-	
cation of phytoplankton species based on the likeness of occur-	
rence. (With 4 figures and 3 tables in the text)	397-409

PICARD, G. A., DE LA NOÜE, J., PIETTE, JP. & KIROUAC, C.: Incidence de l'efficacité et de la population cellulaires sur le traitement tertiaire des eaux usées par l'algue Oocystis sp. [Influence of cell efficiency and population of Oocystis sp. alga in the	
tertiary treatment of wastewater.] (Avec 7 figures et 1 tableau dans le texte)	75— 89
RAGHI-ATRI, FREIDUN & BORNKAMM, REINHARD: Über Halmfestigkeit von Schilf (Phragmites australis [CAV.] TRIN. ex STEUDEL) bei unterschiedlicher Nährstoffversorgung. [On the stiffness of stems of the reed plant (Phragmites australis [CAV.] TRIN. ex STEUDEL) at different levels of nutrients added.] (Mit 3 Abbildungen und 8 Tabellen im Text)	90—105
Rossaro, Bruno: Description of some unknown larvae of <i>Diamesa</i> genus and corrections to previous descriptions (Diptera, Chironomidae). (With 5 figures and 1 table in the text)	298—308
Seki, H., Shortreed, K. S. & Stockner, J. G.: Turnover rate of dissolved organic materials in glacially-oligotrophic and dystrophic lakes in British Columbia, Canada. (With 1 figure and 2 tables in the text).	210—216
SHEPARD, RICHARD B. & MINSHALL, G. WAYNE: Nutritional value of lotic insect feces compared with allochthonous materials. (With 2 figures, 2 tables and an appendix in the text).	467—488
Timms, B. V.: The macrobenthos of Lakes Rotoroa and Rotoiti, South Island, New Zealand, with special reference to the influence of allochthonous organic detritus. (With 4 figures and 4 tables in the text).	182—196
VANGENECHTEN, J. H. D.: Interrelations between pH and other physico-chemical factors in surface waters of the Campine of Antwerp, Belgium: with special reference to acid moorland pools. (With 8 figures in the text).	265—283
VANGENECHTEN, J. H. D., PUYMBROECK, S. VAN, VANDERBORGHT, O. L. J., BOSMANS, F. & DECKERS, H.: Physico-chemistry of surface waters in the Campine region of Belgium, with special reference to acid moorland pools. (With 11 figures and 3 tables in the text)	369—396
Ward, Amelia K. & Wetzel, Robert G.: Interactions of light and nitrogen source among planktonic blue-green algae. (With 12 figures and 4 tables in the text)	1— 25
Ward, Amelia K. & Wetzel, Robert G.: Photosynthetic responses of blue-green algal populations to variable light intensities. (With 6 figures in the text).	129—138
Welton, J. S.: Dynamics of sediment and organic detritus in a small chalk stream. (With 11 figures and 5 tables in the text)	162—181
WILLIAMS, D. DUDLEY: Temporal patterns in recolonization of stream benthos. (With 11 figures in the text)	56 74
ZELINKA, MILOŠ: Differences in the production of mayfly larvae in partial habitats of a barbel stream. (With 9 figures and 5 tables in the text).	284—297
Kleine Mitteilungen Neboiss, A.: First record of the subfamily Hyalopsychinae from	201 277
Australia (Trichoptera: Polycentropodidae). (With 8 figures in the text) Søndergaard, Morten: Adsorption of inorganic carbon-14 to polycentropodidae).	357—361
ethylene scintillation vials — a possible source of error in measures of extracellular release of organic carbon. (With 1 figure and 1 table in the text).	362—366
Temperature preference of the northern redbelly dace, <i>Phoxinus</i> eos (Cope). (With 1 figure in the text)	121—126
Buchbesprechungen	489-491